



NATIONAL SCIENCE FOUNDATION

ANNOUNCEMENT NUMBER S20010016
DIRECTOR, DIVISION OF ELECTRICAL AND COMMUNICATIONS SYSTEMS
DIRECTORATE FOR ENGINEERING
Arlington, Virginia 22230

NSF's Directorate for Engineering (ENG) is seeking qualified candidates for the position of Director, Division of Electrical and Communications Systems (ECS). The ECS Division supports research and education to improve the fundamental understanding of devices and components and to define and apply the principles of information-based systems for control, communications, and computation. The study of micro-and nanoelectronics, photonics, and electromechanical devices and their integration into circuits and microsystems along with research on the principles of analysis and design of systems are the core areas in Electrical Engineering. The integration of device research and systems principles enables broad applications to telecommunications, biomedical, manufacturing and other areas. The Division's program activities have a total annual budget of approximately \$50 million. Additional information about ECS programs and initiatives is provided on the ENG Home Page at (<http://www.eng.nsf.gov/ecs>).

Employment may be on a temporary Senior Executive Service appointment basis in the Federal Government, by temporary assignment under provisions of the Intergovernmental Personnel Act (IPA), or by reimbursable detail from another Federal agency. Internal and external applicants are encouraged to apply. A list of qualification requirements is included on the reverse side of this announcement, which may also be accessed on NSF's Home Page (<http://www.nsf.gov/home/chart/work.htm>). Information about assignment options is provided below.

o **IPA Assignment** Individuals eligible for an IPA assignment with a Federal agency include employees of State and local government agencies or institutions of higher education, Indian tribal governments, and other eligible organizations in instances where such assignments would be of mutual benefit to the organizations involved. Initial assignments under IPA provisions may be made for a period up to two years, with a possible extension for up to an additional two-year period. The individual remains an employee of the home institution and NSF provides funding toward the assignee's salary and benefits.

o **Senior Executive Service (SES) Limited Term Appointment** Individuals may receive a temporary Federal Senior Executive Service appointment within the ES-1 to ES-4 range (currently \$115,811 to \$130,200, with pay increase anticipated in January 2001.) SES limited term appointments have a three-year maximum limit.

o **Reimbursable Interagency Detail** Federal employees may be temporarily detailed from one agency to another under an interagency agreement. Under such an agreement, the individual would retain current employment status at the home agency and NSF would provide funding toward the detailee's salary and benefits.

o **Reassignment of Current SES Member** Current career SES members may apply for reassignment or transfer, with the understanding that appointment in the Division Director role will be on a temporary basis.

Qualification requirements are included on the reverse side of this announcement. Those interested should submit a curriculum vitae or Federal application form, publications list, and a letter referencing qualifications and preferred assignment option to the address listed below. In addition, applicants are asked to complete and submit the attached NSF Form 1232, "Applicant Survey." Submission of this form is voluntary and will not affect your application for employment. The information provided will be used only for statistical purposes. **The formal consideration process will begin in early December.**

National Science Foundation
ATTN: S20010016
Executive Personnel and Development Branch
Division of Human Resource Management
4201 Wilson Boulevard, Room 315
Arlington, Virginia 22230

Kathy Tolson, the point of contact for vacancy announcements coordinated by the Executive Personnel and Development Branch, may be reached at (703) 292-8755; hearing impaired individuals should call TDD on 703-292-8044.

**NSF IS AN EQUAL OPPORTUNITY EMPLOYER COMMITTED TO EMPLOYING A HIGHLY
QUALIFIED STAFF THAT REFLECTS THE DIVERSITY OF OUR NATION**

(Continued on reverse side of announcement)

DIRECTOR, DIVISION OF ELECTRICAL AND COMMUNICATIONS SYSTEMS

STATEMENT OF DUTIES: The incumbent directs the activities of the Division of Electrical and Communications Systems (ECS) and serves as the foundation's principal spokesperson in the areas supported by the Division. Specifically, the Division Director assesses needs and trends in research and education related to the Division's programs, implements overall strategic planning and policy setting, provides leadership and guidance to Division staff members, determines funding requirements, prepares and justifies budget estimates, balances program needs, allocates resources, oversees the evaluation of proposals and recommendations for awards and declinations and represents NSF to relevant external groups.

QUALIFICATIONS REQUIREMENTS

Essential

EXECUTIVE/MANAGERIAL

1. Demonstrated ability to develop and implement an organizational vision which integrates key national and program goals, priorities, and values. Includes understanding the roles and relationships of the Federal, academic and private organizations involved in the support of engineering research and education and the ability to formulate effective strategy to promote program goals and foster partnerships. (Leading Change)
2. Demonstrated ability to achieve organizational objectives by creatively managing and motivating subordinates. Includes knowledge and ability in promoting quality through the effective use of performance standards and assessment, valuing cultural diversity and other differences, promoting developmental opportunities, fostering commitment and team spirit, and constructively resolving conflicts. (Leading People)
3. Demonstrated knowledge and ability in planning, prioritizing, and coordinating multidisciplinary research programs in engineering. Includes the ability to make timely and effective decisions and produce results through strategic planning and the implementation and evaluation of programs and policies. (Results Driven Leadership)
4. Demonstrated ability to acquire and administer human, financial, material, and information resources in a manner which instills public trust and accomplishes the organization's mission, and to use new technology to enhance decision-making. Includes demonstrated ability in recruiting and selecting staff, allocating financial resources, and managing budgetary processes. (Business Acumen)
5. Demonstrated ability to serve as the senior spokesperson for a major organization involved in engineering research and education and to build coalitions. Includes the ability to represent and coordinate organizational strategy and initiatives with representatives of the scientific academic and industrial communities, including academic and industrial researchers and those responsible for the administration of research and educational institutions, Federal officials, representatives of professional organizations and the public. (Building Coalitions/Communication)

Desirable

1. Demonstrated ability to achieve organizational goals through effective and innovative management approaches emphasizing interdisciplinary coordination and teamwork.
2. Skill in changing and balancing complex and diverse program demands and available resources in response to major advances or changing needs of science and engineering research and technology.
3. Demonstrated ability to exercise sound professional judgment in recommending the initiation of research in the field of engineering.

Essential

PROFESSIONAL/TECHNICAL

1. Ph.D. or equivalent professional experience or a combination of education and equivalent experience in Electrical Engineering, Computer Engineering, Systems Engineering or closely related discipline.
2. Substantial research contributions and strong evidence of scholarship in areas related to electrical and communications research and education as evidenced in publications, or innovative leadership in research administration in these technical areas.
3. Knowledge of grant and contract administration, fiscal management, and budget preparation with experience in engineering research support.

Desirable

1. Demonstrated broad knowledge of diverse fields of engineering and complex research objectives.
2. Demonstrated knowledge of relevant academic community and recognized professional standing in the engineering community as evidenced by publications and/or professional leadership and awards.

**NATIONAL SCIENCE FOUNDATION
APPLICANT SURVEY**

Form Approved
OMB No. 3145-0096

Vacancy Ann. # S20010016 Position Status (temporary/permanent): Temporary
Position Title/Series/Grade: Director, Division of Electrical and Communications Systems, ES-1 to ES-4

INSTRUCTIONS

Your completion of this form will be appreciated. Submission of this Information is voluntary and it will have no effect on the processing of your application. The data collected will be used only for statistical purposes to ensure that agency personnel practices meet the requirements of Federal law. NSF estimates that each respondent should take about 3 minutes to complete this survey, including time to read the instructions. You may have comments regarding this burden estimate or any other aspect of this survey, including suggestions for reducing this burden. If so, please send them to NSF Reports Clearance Officer, Information Dissemination, NSF, 4201 Wilson Blvd., Arlington, VA. 22230.

PRIVACY ACT INFORMATION

GENERAL – This information is provided pursuant to Public Law 93-579 (Privacy Act of 1974), December 31, 1974, for individuals completing Federal records and forms that solicit personal information.

AUTHORITY – Section 7201 of title 5 of the U.S. Code and Section 2000e-16 of title 42 of the U.S. Code.

PURPOSE AND ROUTINE USES

The information is used for research and for a Federal Equal Opportunity Recruitment Program (FEORP) to help insure that agency personnel practices meet the requirements of Federal law. Address questions concerning this form and its uses to the Privacy Act Officer, National Science Foundation, Arlington, VA 22230.

1. Today's Date: _____

2. Year of Birth: _____

3. How did you learn about the particular position for which you are applying? (Circle appropriate number.)

- 01 - Newspaper (specify) _____
- 02 - Contact with NSF Personnel Office
(Agency Bulletin Board or other Announcement)
- 03 - NSF-initiated personal contact
- 04 - Science Magazine, or other professional journal or magazine
(specify) _____
- 05 - Affirmative Action Register
- 06 - Attendance at conference, meeting or job fair
(specify) _____
- 07 - NSF recruitment at school or college
- 08 - Colleague referral

- 09 - NSF Bulletin
- 10 - Federal, State or local job information center
- 11 - State vocational rehabilitation agency or
Veterans Administration
- 12 - State employment office
- 13 - School or college counselor or other official
- 14 - Private job Information service
- 15 - Private employment service
- 16 - Friend or relative working at NSF
- 17 - Friend or relative not working at NSF
- 18 - Other (specify) _____

4. Please select the racial/ethnic category with which you most closely identify yourself. (Circle the appropriate letter)

- A. **American Indian or Alaskan Native.** A person having origins in any of the original peoples of North America, who maintains cultural identification through tribal affiliation or community recognition.
- B. **Asian or Pacific Islander.** A person having origins in any of the original peoples of the Far East, Southeast Asia, the Indian subcontinent, or the Pacific Islands. This area includes, for example, China, India, Korea, the Philippine Islands, and Samoa
- C. **Black, not of Hispanic origin.** A person having origins in any of the Black racial groups of Africa. This does not include persons of Mexican, Puerto Rican, Cuban, Central or South American, or other Spanish cultures or origins.
- D. **Hispanic.** A person of Mexican, Puerto Rican, Cuban, Central or South American or other Spanish culture or origin, regardless of race.
- E. **White, not of Hispanic origin.** A person having origins in any of the original peoples of Europe, North Africa or the Middle East. This does not include persons of Mexican, Puerto Rican, Cuban, Central or South American, or other Spanish cultures or origin.

5. Sex (Circle the appropriate letter.) F – Female M – Male

6. Please provide Information on your disability status by checking one of the categories below:

- 1. ☐ I do not have a disability; 2. ☐ Hearing impairment; 3. ☐ Vision impairment; 4. ☐ Missing extremities;
- 5. ☐ Partial paralysis; 6. ☐ Complete paralysis; 7. ☐ Convulsive disorder; 8. ☐ Mental retardation; 9. ☐ Mental or emotional illness; 10. ☐ Severe distortion of limbs and/or spine; 11. ☐ I have a disability but it is not listed.

FOR AGENCY USE

Agency Code: _____

AN EQUAL EMPLOYMENT OPPORTUNITY EMPLOYER